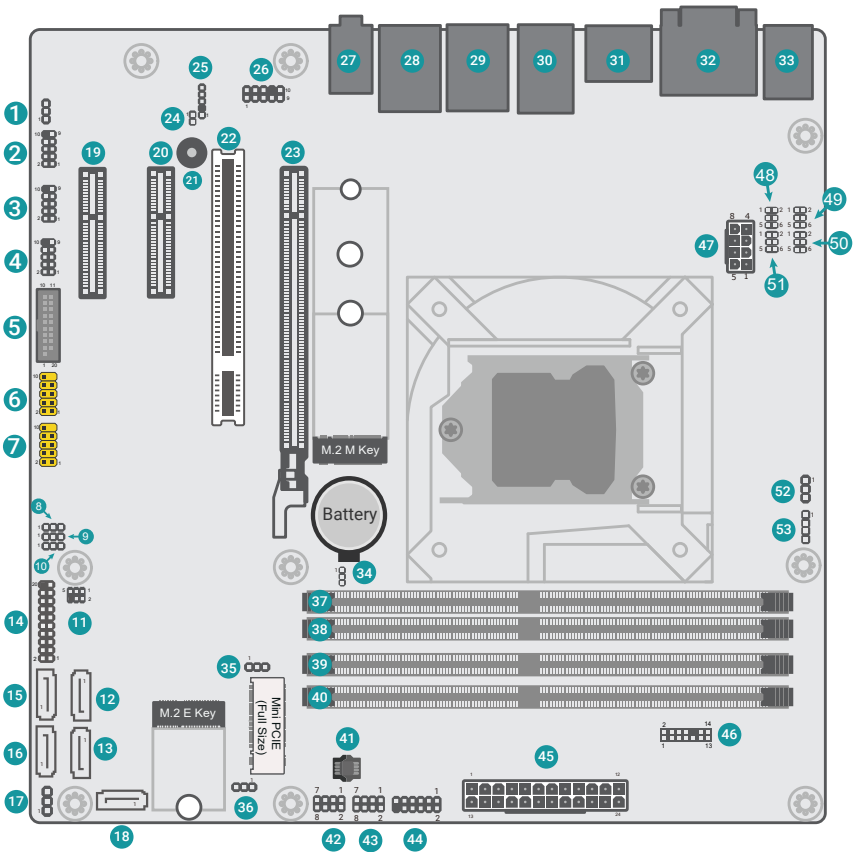


Board Layout

Top View



1	System Fan3 (J30)
2	COM2
3	COM3
4	COM4
5	USB 5/6 (USB3.1 Gen1)
6	USB 9/10 (USB2.0)
7	USB 11/12 (USB2.0)
8	Digital I/O (DIO) Power Select (JP17)
9	Digital I/O (DIO) Power Supply (JP19)
10	Digital I/O (DIO) Power Supply (JP18)
11	SMBus
12	SATA1 (R1)
13	SATA2 (R2)
14	DIO
15	SATA3 (R1)
16	SATA4 (R1)
17	System Fan2 (J22)
18	SATA0 (R5)
19	PCIE3
20	PCIE2

21	Buzzer
22	PCI1
23	PCIE1
24	Chassis Intrusion
25	S/PDIF
26	Front Audio
27	▲Line-Out / Line-In (optional) ▼MIC-In
28	▲LAN2 ▼USB 3/4 (USB3.1 Gen1)
29	▲LAN1 ▼USB 1/2 (USB3.1 Gen1)
30	▲LAN3 ▼LAN4
31	▲DP++ ▼DP++
32	▲COM1 ▼VGA
33	▲PS/2 KB/MS ▼USB 2.0
34	Clear CMOS
35	HSIO Signal Trace Selection
36	Mini PCIe/mSATA select
37	DIMM1
38	DIMM2
39	DIMM3
40	DIMM4

- 41 SPI Flash BIOS

- 42 LAN 3/4 LED

- 43 LAN 1/2 LED

- 44 Front Panel

- 45 ATX Power

- 46 LPC

- 47 +12V Power

- 48 COM 1 Serial Mode (JP2)

- 49 COM 1 Serial Mode (JP1)

- 50 COM 1 RS232 Power Select

- 51 COM 1 Serial Mode (JP3)

- 52 System Fan1 (J7)

- 53 CPU Fan

Jumper Settings

8 DIO Power Select	JP17
+5VDU (default)	1-2 On
+5V	2-3 On

9 10 Digital I/O (DIO) Power Supply	JP18 & JP19
DIO power used (default)	1-2 On
GND	2-3 On

- JP18 is used to select for DIO0~DIO3.
- JP19 is used to select for DIO4~DIO7.

48 49 COM 1 Serial Mode	JP1, JP2
RS232 (default)	1-3, 2-4 On
RS422	3-5, 4-6 On
RS485	3-5, 4-6 On

51 COM 1 Serial Mode	JP3
RS232 (default)	1-3, 4-6 On
RS422	3-5, 4-6 On
RS485	3-5, 2-4 On

50 COM 1 RS232 Power Select	JP4
Standard RS232 (default)	2-4 On: Pin 1 = DCD- 1-3 On: Pin 9 = RI-
RS232 with Power	4-6 On: Pin 1 = +12V 3-5 On: Pin 9 = +5V

34 Clear CMOS	JP5
Normal (default)	1-2 On
Clear CMOS	2-3 On

35 HSIO Signal Trace Selection	JP20
To CN10 (Default)	1-2 On
To J20	2-3 On

36 Mini PCIe/mSATA Select	JP9
Mini PCIe (Default)	1-2 On
mSATA	2-3 On

PIN Assignment

24 ► Chassis Intrusion

Pin	Assignment
1	Signal
2	GND

52 17 1 ► SYSTEM FAN1/2/3

Pin	Assignment
1	GND
2	PWM
3	TACH

53 ► CPU Fan

Pin	Assignment
1	GND
2	Power
3	Sense
4	Speed Control

25 ► S/SPDIF

Pin	Assignment
1	+5V
2	---
3	SPDIF Out
4	GND
5	SPDIF In

18 ► SATA0

Pin	Assignment
1	GND
2	TX+
3	TX-
4	GND
5	RX-
6	RX+
7	GND

12 ► SATA1

Pin	Assignment
1	GND
2	TX+
3	TX-
4	GND
5	RX-
6	RX+
7	GND

13 ▶ SATA2

Pin	Assignment
1	GND
2	TX+
3	TX-
4	GND
5	RX-
6	RX+
7	GND

15 ▶ SATA3

Pin	Assignment
1	GND
2	TX+
3	TX-
4	GND
5	RX-
6	RX+
7	GND

16 ▶ SATA4

Pin	Assignment
1	GND
2	TX+
3	TX-
4	GND
5	RX-
6	RX+
7	GND

11 ▶ SMBus

Pin	Assignment	Pin	Assignment
1	3V3SB	2	GND
3	SMBus_Clock	4	SMBus_DATA
5	SMBus_Alert	6	---

26 ▶ Front Audio

Pin	Assignment	Pin	Assignment
1	Mic-L	2	GND
3	Mic-R	4	N.C.
5	Line-Out-R	6	Mic-JD (sense)
7	GND	8	KEY
9	Line-Out-L	10	Line-JD (sense)

44 ► Front Panel

Pin	Assignment	Pin	Assignment
1	NC	2	LED Power
3	HDD Power	4	LED Power
5	Signal	6	Signal
7	GND	8	GND
9	Signal	10	Signal
11	NC	12	---

46 ► LPC

Pin	Assignment	Pin	Assignment
1	L_CLK	2	L_LAD1
3	L_RST#	4	L_LAD0
5	L_FRAME#	6	3.3V
7	L_LAD3	8	GND
9	L_LAD2	10	---
11	SERIRQ	12	GND
13	5VSB	14	5V

48 49 ► COM 1 Serial Mode

Pin	Assignment	Pin	Assignment
1	MDCD1-/ RS422_RX+ / RS485_D+	2	MSIN1-/ RS422_RX- / RS485_D-
3	MSO1-/RS422_TX+	4	MDTR1-/RS422_TX-
5	GND	6	MDSR1-
7	MRTS1-	8	MCTS1-
9	MRI1-	10	--

43 42 ▶ LAN 1/2 LED & LAN 3/4 LED

Pin	Assignment	Pin	Assignment
1	GBE(LAN1/3)_1000	2	GBE(LAN1/3)_100
3	GBE(LAN1/3)_LED_LINK_ACT	4	3V3DU
5	LINK(LAN2/4)_1000	6	LINK(LAN2/4)_100
7	LINK(LAN2/4)_ACTIVITY	8	3V3DU

14 ▶ DIO

Pin	Assignment	Pin	Assignment
1	GND	2	+12V
3	DIO_7	4	+12V
5	DIO_6	6	GND
7	DIO_5	8	+5V
9	DIO_4	10	+5V
11	DIO_3	12	GND
13	DIO_2	14	+5VDU
15	DIO_1	16	+5VDU
17	DIO_0	18	GND
19	GND	20	---



DFI reserves the right to change the specifications at any time prior to the product's release. This QR may be based on the product's revision. For more documentation and drivers, please visit the download page at www.dfi.com/downloadcenter, or via the QR codes to the right.

